Textbook Alignment to the Utah Core – 6th Grade Mathematics

This alignment has been completed using an "Independent Alignment Vendor" from the USOE approved list
(<u>www.schools.utah.gov/curr/imc/indvendor.html</u> .) Yes No
Name of Company and Individual Conducting Alignment:Eisemann Communication/Rebecca Nelson_
A "Credential Sheet" has been completed on the above company/evaluator and is (Please check one of the following):
X On record with the USOE.
☐ The "Credential Sheet" is attached to this alignment.
Instructional Materials Evaluation Criteria (name and grade of the core document used to align): 6 th Grade Mathematics Core Curriculum
Title: Holt Mathematics, Course 1© 2007 ISBN#: <u>0-03-038507-5</u>
Publisher: Holt, Rinehart, and Winston
Overall percentage of coverage in the Student Edition (SE) and Teacher Edition (TE) of the Utah State Core Curriculum: 96%
Overall percentage of coverage in ancillary materials of the Utah Core Curriculum:%

Percentage of coverage in the student and teacher edition for Standard I: 91 %		Percentage of coverage not in student or teacher edition, but covered in the ancillary material for Standard I:%			
Овје	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries	
Objec	tive 1.1: Represent rational numbers in a variety of ways.				
a.	Recognize a rational number as a ratio of two integers, a to b, where b is not equal to zero.	SE 763			
b.	Change whole numbers with exponents to standard form (e.g., $2^4 = 16$) and recognize that any non-zero whole number to the zero power equals 1 (e.g., $9^0 = 1$).	SE 14-17			
c.	Write a whole number in expanded form using exponents (e.g., $876,539 = 8 \times 10^5 + 7 \times 10^4 + 6 \times 10^3 + 5 \times 10^2 + 3 \times 10^1 + 9 \times 10^0$).	SE 124-127			
d.	Express numbers in scientific notation using positive powers of ten.	SE 124-126			
	tive 1.2: Explain relationships and equivalencies among				
ration a.	Place rational numbers on the number line.	SE 181, 199			
b.	Compare and order rational numbers, including positive and negative mixed fractions and decimals, using a variety of methods and symbols, including the number line and finding common denominators.	SE 171-182, 185-186, 192-193, 198-200			

Овје	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
c.	Find equivalent forms for common fractions, decimals, percents, and ratios, including repeating or terminating decimals.	SE 181-183, 385-387		
d.	Relate percents less than 1% or greater than 100% to equivalent fractions, decimals, whole numbers, and mixed numbers.	Not covered		X
e.	Recognize that the sum of an integer and its additive inverse is zero.	SE 602-603		
	tive 1.3: Use number theory concepts to find prime izations, least common multiples, and greatest common s.			
a.	Determine whether whole numbers to 100 are prime, composite, or neither.	SE 162, 164-166		
b.	Find the prime factorization of composite numbers to 100.	SE 169-171		
c.	Find the greatest common factor and least common multiple for two numbers using a variety of methods (e.g., list of multiples, prime factorization).	SE 173-176, 177, 226, 228-231		
	tive 1.4: Model and illustrate meanings of operations and be how they relate.			
a.	Relate fractions to multiplication and division and use this relationship to explain procedures for multiplying and dividing fractions.	SE 260-263, 268-269, 270-273		

Овје	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
b.	Recognize that ratios derive from pairs of rows in the multiplication table and connect with equivalent fractions.	SE 356-359		
c.	Give mixed number and decimal solutions to division problems with whole numbers.	SE 299, 300		
Objec	tive 1.5: Solve problems involving multiple steps.			
a.	Select appropriate methods to solve a multi-step problem involving multiplication and division of fractions and decimals.	SE 114, 115, 121, 133, 136, 139, 140, 143, 147, 263, 277		
b.	Use estimation to determine whether results obtained using a calculator are reasonable.	SE* 389		X
c.	Use estimation or calculation to compute results, depending on the context and numbers involved in the problem.	Throughout the Student Edition See examples: 10-13, 112-115, 141-143, 206-209, 236-237, 239, 304, 370-372, 714, 718, 721		
d.	Solve problems involving ratios and proportions.	SE 353-355, 363-365		
with p	etive 1.6: Demonstrate proficiency with the four operations, positive rational numbers, and with addition and action of integers.			
a.	Multiply and divide a multi-digit number by a two-digit number, including decimals.	SE 83, 131, 132, 134, 137, 138, 139, 140, 141, 143, 145, 146, 148		

OBJECTIVES & INDICATORS		Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
b.	Add, subtract, multiply, and divide fractions and mixed numbers.	SE 232-234, 238-239, 258-260, 264-265, 268-272		
c.	Add and subtract integers.	SE 616-618, 621-623		
	DARD II: Students will use patterns, relations, and algebraic onships.	expressions to represent and analyze	mathematical problems and	l number
	ntage of coverage in the <i>student and teacher edition</i> for ard II: 100 %	Percentage of coverage not in stude the <i>ancillary material</i> for Standard		vered in
Овјес	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
	tive 2.1: Analyze algebraic expressions, tables, and graphs ermine patterns, relations, and rules.			
a.	Describe simple relationships by creating and analyzing tables, equations, and expressions.	SE 308-311, 312-313, 319-321, 322-325, 356-359, 640-643, 644-645, 646-649, 724, 725, 726, 736, 765, 766		
b.	Draw a graph and write an equation from a table of values.	SE 640, 641, 642-643		
c.	Draw a graph and create a table of values from an equation.	SE 646, 647, 648-649		

Овје	Objectives & Indicators		overage in Student Edition(SE) and Geacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
Objective 2.2: Write, interpret, and use mathematical expressions, equations, and formulas to represent and solve problems that correspond to given situations.					
a.	Solve single variable linear equations using a variety of strategies.	SE	74-77, 78-80, 81-84, 85-87, 144-147, 248-251, 274-277, 636-639		
b.	Recognize that expressions in different forms can be equivalent and rewrite an expression to represent a quantity in a different way.	SE	14, 16, 26-27, 28-29		
c.	Evaluate and simplify expressions and formulas, substituting given values for the variables (e.g., $2x + 4$; $x = 2$; therefore, $2(2) + 4 = 8$).	SE	16, 20, 22, 23, 24-25, 26-27, 28-29, 54-57, 66-67, 68, 521, 522-523, 543, 544, 546-549, 551-553, 554-556, 559-561, 572-575, 576-579, 715, 716, 756, 771		

Percentage of coverage in the student and teacher edition for Standard III: 100%		Percentage of coverage not in student or teacher edition, but covered in the ancillary material for Standard III:%			
Овјес	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries	
•	tive 3.1: Identify and analyze attributes and properties of etric shapes to solve problems.				
a.	Identify the midpoint of a line segment and the center and circumference of a circle.	SE 520-523, 524			
b.	Identify angles as vertical, adjacent, complementary, or supplementary and provide descriptions of these terms.	SE 424, 425, 426-427			
c.	Develop and use the properties of complementary and supplementary angles and the sum of the angles of a triangle to solve problems involving an unknown angle in a triangle or quadrilateral.	SE 425, 426-427, 437-440			
•	tive 3.2: Visualize and identify geometric shapes after ng transformations on a coordinate plane.				
a.	Rotate a polygon about the origin by a multiple of 90° and identify the location of the new vertices.	SE 459-460, 463			
b.	Translate a polygon either horizontally or vertically on a coordinate grid and identify the location of the new vertices.	SE 459-460, 463			
c.	Reflect a polygon across either the x- or y-axis and identify the location of the new vertices.	SE 459-460, 463			

Percentage of coverage in the student and teacher edition for Standard IV: 90%		Percentage of coverage not in student or teacher edition, but covered in the ancillary material for Standard IV:%		
Овје	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries 🗸
Objec circle.	tive 4.1: Describe and find the circumference and area of a			
a.	Explore the relationship between the radius and diameter of a circle to the circle's circumference to develop the formula for circumference.	SE 520		
b.	Find the circumference of a circle using a formula.	SE 519, 521, 522		
c.	Describe pi as the ratio of the circumference to the diameter of a circle.	SE 520		
d.	Decompose a circle into a number of wedges and rearrange the wedges into a shape that approximates a parallelogram to develop the formula for the area of a circle.	SE 557		
e.	Find the area of a circle using a formula.	SE 558-561, 733		
object	tive 4.2: Identify and describe measurable attributes of and units of measurement, and solve problems involving arement.			
a.	Recognize that measurements are approximations and describe how the size of the unit used in measuring affects the precision.	SE 486		

Овје	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
b.	Convert units of measurement within the metric system and convert units of measurement within the customary system.	SE 496-499, 500-503, 731		
c.	Compare a meter to a yard, a liter to a quart, and a kilometer to a mile.	Not covered		X
d.	Determine when it is appropriate to estimate or use precise measurement when solving problems.	SE 489		
e.	Derive and use the formula to determine the surface area and volume of a cylinder.	SE 576-579, 583, 584-585, 734		

Percentage of coverage in the student and teacher edition for Standard V: 100%		Percentage of coverage not in student or teacher edition, but covered in the ancillary material for Standard V:%				
Овје	Objectives & Indicators		Coverage in Student Edition(SE) and WES & INDICATORS Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)		Not covered in TE, SE or ancillaries	
Objective 5.1: Design investigations to reach conclusions using statistical methods to make inferences based on data.						
a.	Design investigations to answer questions.	SE	294-295, 300, 308-309, 312- 315, 322-323, 330-331			
b.	Extend data display and comparisons to include scatter plots and circle graphs.	SE	303, 524-525			
c.	Compare two similar sets of data on the same graph and compare two graphs representing the same set of data.	SE	313, 327-329			
d.	Recognize that changing the scale influences the appearance of a display of data.	SE	326-327			
e.	Propose and justify inferences and predictions based on data.	SE	337-338, 694, 696, 697			
Object outcome	etive 5.2: Apply basic concepts of probability and justify mes.					
a.	Write the results of a probability experiment as a fraction between zero and one, or an equivalent percent.	SE	668-669			

Овје	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
b.	Compare experimental results with theoretical results (e.g., experimental: 7 out of 10 tails; whereas, theoretical 5 out of 10 tails).	SE 672-674		
c.	Compare individual, small group, and large group results of a probability experiment in order to more accurately estimate the actual probabilities.	SE 672, 675		